

Product datasheet for **MG209399**

Tomm70a (NM_138599) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tomm70a (NM_138599) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tomm70a
Synonyms:	2610044B22Rik; D16lum22; D16lum22e; D16Wsu109e; mKIAA0719; Tom70; Tomm70
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209399 representing NM_138599
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCGCTCTAAGCCATAGAGCGGGGATGGCGGGCTGCTGCGCCGGTTCTGAAATGGAGTGG
 GCGGTGGCGGTGGGACTGCGGGCCCGGCTCGGGCGCGGGGACCTGCCCGATGGCACGTGGCGCTGGC
 CATCGGGGCGCCCTGTTGCTGGGTGCTGGGGCTATGTACCTGTGGAGCCGAAGCGGAGGCGCCGGGAA
 GCGGGAGGCGGGGCGACGCCAGCGGCCTGAAGCGCAACAGTGAACGGAAGACCCCGAGGGCAGGGCCA
 GTCCGGCCCTGGGAGTGGCCACCACGACGGTTCTGGGACTCCCTGAAATGAGCTCTCTGGACAGAGC
 GCAAGCAGCCAAAAACAAAGGCAACAAATTTCAAAGCAGGAAAATACGAGCAAGCTATTCAGTGTAC
 ACTGAGGCTATTAGTTTGTGCCCTACTGAGAAGAAATGTAGACCTTTCTACATTTTATCAGAACAGAGCTG
 CTGCCTTTGAACAATTGCAAAAATGAAAGAAGTGGCCCAAGATTGTACAAAGGCTGTTGAACTTAATCC
 CAAATATGTGAAAGCCCTCTTTAGACGTGCAAAAGCCCATGAGAAGCTAGACAATAAGAAGGAGTGTTA
 GAAGACGTCAGTCTGTGTATATTAGAAGGGTTTCAAATGAGCAGAGCATGCTGTTAGCTGATAAAG
 TTCTTAAACTTCTGGGAAAGAGAAATGCCAAAGAAAAATACAAGAACCCTGAACCTCTGATGCCATCTCC
 ACAGTTTATTAATCTTACTTCAGTTCTTTACCGATGATATAATTTCTCAACCAATGCTTAAGGGAGAG
 AAGTCTGATGAAGATAAAGACAAGGAGGGAGAGGCTTTAGAAGTGAAGAAAAATCTGGGTATTTGAAAG
 CTAACAATATATGGAAGAAGAAAATATGACAAAATCATAAGTGAATGTTCAAAGGAAATAGATGCTCA
 AGGCAATACATGGCAGAAGCATTACTTCTGCGAGCCACCTTCTACCTACTTATTGGCAGTGCCAACGCG
 GCCAAGCCTGACTTAGATAAGGTCATCAGTTTGAAGGAAGCTAATGTGAAGCTTCGAGCAAAATGCCCTTA
 TCAAGAGAGGCACCATGTGCATGCAGCAGCAACAACCTATGCTGTCTACTCAGGACTTCAACATGGCTGC
 CGAGATCGATCCTATGAACCTCAGACGTTTATCACCACCGAGGACAGCTGAAAATTCGCTGGATCTGGTT
 GAAGAAGCAGTGCGGATTTTGTATGCATGTATCAGATTAAGACCAAGTTTCTTTGGCGCAGGCTCAGA
 AGTGTTTTGCATTGTATCGCCAGGCATATACAGCAACAATTCTTCGCAAGTCCAGGCAGCTATGAAAGG
 TTTTGAAGAGATCATAAAGAAAATTTCCAAGATGTGCTGAAGGCTATGCACTTTATGCCAGGCATTAACA
 GATCAACAACAGTTTGGTAAAGCTGATGAAATGTATGATAAGTGTATTGATTTGGAACCAGATAATGCTA
 CAACTTATGTTTCATAAAGTTTACTTCACTTCAGTGAAGCAAGATTTGGATAAAGTTTGGAGCTTAT
 CAGCAAGGCTATTGAAATGACAACAAATGTGACTTTGCATATGAGACCATGGGGACTATTGAAGTGCAG
 AGAGGAAACATGGAGAAAGCCATTGACATGTTCAACAAAGCTATCAACTGGCCAAGTCGGAATGGAGA
 TGGCTCATCTGTATTCACTTTGTATGCTGCCATGCCAGACAGAAGTAGCAAAGAAATACGGATTA
 ACCGCCGACATTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209399 representing NM_138599
 Red=Cloning site Green=Tags(s)

MAASKPIEAAMAAAAAPGSGNGVGGGGTAGPGSGAGTLPRWHVALAIGAPLLLGGAGMYLWSRRRRRRE
 AGGRGDASGLKRNSERKTPEGRASPALGSGHHDGSGDSLEMSLDRAQAANKGNKYFKAGKYEQAIQCY
 TEAISLCPTEKNVDLSTFYQNRAAAFEQLQKWKEVAQDCTKAVELNPKYVKALFRAKAHEKLDNKKECL
 EDVTAVCILEGFQNEQSMMLADKVLKLLGKENAKEKYKNREPLMPSPQFIKSYFSSFTDDIISQPMLKGE
 KSDEKDKKEGEALVKEKNSGYLKAKQYMEENYDKIISECSKEIDAQGYMAEALLLRATFYLLIGSANA
 AKPDLDKVVISLKEANVKLRANALIKRGTMCMQQQPMLSTQDFNMAAIDPMNSDVYHHRGQLKILLDLV
 EEAVADFACIRLRPKFALAQAQKCFALYRQAYTANNSSQVQAAMKGFEEI IKKFRCAEGYALYAQALT
 DQQQFGKADEMYDKIDLEPDNATTYVHKGLLQLQWKQDLDKGLELISKATEIDNKCDFAYETMGTIEVQ
 RGNMEKAIDMFKAINLAKSEMMAHLYSLCDAHAHQTEVAKKYGLKPPTL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_138599.5](#), [NP_613065.2](#)

RefSeq Size: 3778 bp

RefSeq ORF: 1836 bp

Locus ID: 28185

UniProt ID: [Q9CZW5](#)

Cytogenetics: 16 34.22 cM

Gene Summary: Receptor that accelerates the import of all mitochondrial precursor proteins. [UniProtKB/Swiss-Prot Function]